

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The first three terms in the expansion of $(1 - x)^{-1}$ are	A. $1 + x + x^2$ B. $1 - x - x^2$ C. $-1 - x + x^2$ D. $1 - x + x^2$
2	$\underline{O}(0,0)$ is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
3	Question Image	A. The law of cosines B. The law of sines C. The law of tangents D. None of these
4	Question Image	A. I B. $ A $ C. $ A I$ D. None of these
5	The measure of the angle subtended at the centre of the circle by an arc, whose length is equal to the radius of the circle is	A. 1° B. $1'$ C. $1''$ D. 1 rad
6	For non-trivial solution $ A $ is	A. non zero B. $A = 0$ C. $ A = 0$ D. $At = 0$
7	Three right angles is the angle of measure	A. 270° B. 180° C. 90° D. $270'$
8	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set D. None of these
9	If α, β are the roots of $ax^2 + bx + c = 0$, the equation whose roots are doubled is	A. $ay^2 + 2by + c = 0$ B. $ay^2 + 2by + 4c = 0$ C. $ay^2 + 2by + c = 0$ D. $ay^2 + by + 4c = 0$
10	Question Image	
11	Find a if 1 is a root of the equation $x^2 + ax + 2 = 0$	A. 3 B. -3 C. 2 D. 0
12	$A = [3]$ is a/an	A. Square matrix B. Scalar matrix C. Diagonal matrix D. Identity matrix
13	If a_1 and r are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is	A. 0 B. $a ₁ r ⁿ⁻¹$ C. $a ₁ r ⁿ⁺¹$ D. $a ₁ r ⁿ$
14	The general equation of a circle is	
15	Question Image	A. $1/3$ B. 1 C. 3 D. None of these
16	Range of $y = \sec x$ is	A. $-1 \leq y \leq 1$ B. $y \geq 1$ or $y \leq -1$ C. $y \leq 1$ or $y \geq -1$ D. $-\infty < y < \infty$

- 17 Question Image A. $\frac{10}{6}$
B. $\frac{10}{5}$
C. $\frac{10}{4}$
D. None
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- 18 Question Image A. Proper fraction
B. Improper fraction
C. Rational fraction
D. None of these
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- 19 Question Image
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- 20 In set builder notation the set $\{0, 1, 2, \dots, 100\}$ can be written as
 A. $\{x / x \in \mathbb{B} \wedge x \leq 100\}$
B. $\{x / x \in \mathbb{W} \wedge x \leq 101\}$
C. $\{x / x \in \mathbb{Z} \wedge x \leq 101\}$
D. The set of first 100 whole numbers